MANURE STORAGE / DEAD BIRD COMPOSTING FACILITY DESIGN WORKSHEET

Conservation District: _____ Location: _____

Cooperator: _____ Field Office: _____

Identification No.: _____ Field No. _____

TRUSS DESIGN

Metal ☐ or Wood ☐

Minimum design load = _____ psf live load plus dead load of roof.

50-yr Mean Recurrence Interval Wind Speed: _____ mph

Eve Overhang: _____ ft (2.5 ft max.)

Roof Slope: 3:12 ☐ 4:12 ☐

Truss span between supports _____ ft.

Supplier designed Yes ☐ No ☐ If Yes attach copy of design computations certified by a registered engineer. If No state designer and approving engineer.

Designed by: _____ Approved by: _____

POST DESIGN

Post height: _____ ft. Post spacing (C-C): _____ ft.

50-yr Mean Recurrence Interval Wind Speed: _____ mph

Bracing? Yes ☐ No ☐ Span between posts: _____ ft.

Design chart used: Table _____ (from Florida Engineering Technical Note FL-ENG-23)

Post size from Table _____

☐ Nominal ___ x ___

☐ Full size ___ x ___

☐ Pole _____

(Check type to be used)

POST EMBEDMENT DEPTH

Foundation description: Soil Name _____

Unified classification symbol _____

General description (excavated, compacted fill, depth to seasonal water table, etc.) of foundation material

NOTE: Designs for structures on weak, soft, wet or highly plastic soils must be checked by an Engineer.

Soil Bearing Pressure: _____ psf Post Height: _____ ft

Are posts encased in a concrete floor slab? Yes ☐ No ☐

If Yes, embedment = ____ feet minimum from Table _____, FL-ENG-23

If No, embedment = ____ feet minimum from Table _____, FL-ENG-23

BEAM (GIRDER) DESIGN

Are trusses supported by beam? Yes ☐ No ☐

If No: No beam needed for most certified metal trusses.

If Yes: Supports trusses only, from Table _____, FL-ENG-23

_____ - 2" X _____ (dressed) with/without beam braces.

PURLIN DESIGN

Distance between trusses, _____ ft. = Purlin Span

Purlin size, from Table _____, FL-ENG-23

☐ Laid flat: _____ x _____

☐ On edge: _____ x _____

(Check type to be used)

Print Form Reset Form Save Form

Designed by:_____ Date:_____

Checked by:_____ Date:_____

Approved by:_____ Date:_____